

Supplemental Digital Content 2: Outcomes of interest for each research question

Type of Outcome	Eligibility Criteria	Timing of IBR w/r/t Chemo and Radiation	Materials for IBR	Anatomic Planes for IBR	Use vs. nonuse of ADMs During IBR
Benefit/ Clinical Outcomes	General quality of life*	X	X	X	X
	Physical well-being*	X	X	X	X
	Psychosocial well-being*	X	X	X	X
	Sexual well-being*	X	X	X	X
	Patient satisfaction with breasts*	X	X	X	X
	Patient satisfaction with surgical outcome*	X	X	X	X
	Planned surgeries for reconstruction*	X	X	X	X
	Recurrence of breast cancer	X	X	X	X
	Mortality*	X	X	X	X
Surgical Complications	Unplanned repeat hospitalization*	X	X	X	X
	Duration of unplanned repeat hospitalization*	X	X	X	X
	Unplanned repeat surgery for revision of reconstruction*	X	X	X	X
	Unplanned repeat surgery for complications*	X	X	X	X
	Pain*	X	X	X	X
	Analgesic use*	X	X	X	X
	Necrosis*	X	X	X	X
	Animation deformity*	X	X	X	X
	Implant-related infections*	X	X	X	X
	Implant rupture*	X	X	X	X
	Implant deflation*	X	X	X	X
	Implant malposition*	X	X	X	X
	Implant failure/loss or need for explant surgery*	X	X	X	X
	Capsular contracture*	X	X	X	X
	New neoplasms*	.	X	X	X
	Complications that delay other cancer-related treatments*	X	X	X	X
	Thromboembolic events*	X	X	X	X
	Infections not explicitly implant-related	X	.	X	X
	Wound dehiscence*	X	X	X	X
	Delayed healing*	X	X	X	X
	Seroma*	X	X	X	X
	Chronic conditions*	X	X	X	X
	Touch sensitivity	X	X	X	X
	Scarring	X	X	X	X
	Red breast syndrome	.	X	X	X

Abbreviations: IBR = implant-based reconstruction, ADM = acellular dermal matrix, X = relevant to research question, . = not relevant to research question

* Denotes important outcomes that were consider when developing Strength of Evidence tables for at least one research question.